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03/04

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/606,977

DATE: 04/03/2001
TIME: 13:22:58

Input Set : N:\paola\i606977.raw
Output Set: N:\CRF3\04032001\I606977.raw

1 <110> APPLICANT: Byrum, Joseph R.
2 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
3 Plants
4 <130> FILE REFERENCE: 38-21(15877)B
5 <140> CURRENT APPLICATION NUMBER: US/09/606,977
6 <141> CURRENT FILING DATE: 2000-06-28
7 <160> NUMBER OF SEQ ID NOS: 82359
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10 <211> LENGTH: 280
11 <212> TYPE: DNA
12 <213> ORGANISM: Zea mays
13 <223> OTHER INFORMATION: unsure at all n locations
14 <400> SEQUENCE: 1
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W--> 17 agtgaatatac gngtttcttc cttatattcga gcactaagac tcgcctgtcg gctagctgaa 180
18 ccgcttaacc gagcgtgagt tgccttgcc ggaaggtgac gatgtggat tctgttattcc 240
19 ggaggcgtaa gagttccctcg gtcggcgtgg gcttgcctcc 280
21 <210> SEQ ID NO: 2
22 <211> LENGTH: 360
23 <212> TYPE: DNA
24 <213> ORGANISM: Zea mays
25 <400> SEQUENCE: 2
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27 attgaaagac cccgctcgat agtgaatgtt gctattctag caaaggaaag gtgttttttc 120
28 ggaccttcgg cgtaaagcgt tcgtccatgt cgcaatctaa atttatttattt taaaataaaa 180
29 ttaatattgc gaggggctac tgggtggggc cttctgttca caaaggctt caaaaacagg 240
30 atttaacaat atttctggag tataatgtgt gagcaggat cttcggactc aagtccgtat 300
31 cacaacagga gaagaccaga atagtacgaa cgttgatatac gcgcccaaaa tgtgaacagg 360
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34 <211> LENGTH: 433
35 <212> TYPE: DNA
36 <213> ORGANISM: Zea mays
37 <223> OTHER INFORMATION: unsure at all n locations
38 <400> SEQUENCE: 3
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40 gagtttcccg gatgtggcg ccaatgttgg ggacttggc tcaaattgtt cgaatttaga 120
41 acaagacaac aaaaaatgt taagtataaa ttcccttcgt ccgctgaagc attatctccc 180
42 caaggatttta atgagcttgc gacgaaggcc ataaataaaat tatcacgaaat gtttccaccc 240
43 cgtgtatcata ttttaagac aacaatgaga aatgaaatataaagcataaca atatattcac 300
44 atattctgtt atatgaaatataaagcataaca aatgatatttgc aacataaca ttttaccc 360
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46 agtaccggaa tac 433
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49 <211> LENGTH: 359
50 <212> TYPE: DNA
51 <213> ORGANISM: Zea mays

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54 ccaaacttagc tttttaggaa tattgcctt ttaatggaaat actgactaga aaacctagtt 120
55 gccagggtgtt cccggaaagaaa gtttataaag aataacttac tatcttctat ataactgata 180
56 ttatagcata catgagcata atgttatgtt tggctgtttaa aaacaagaaa agaattgtca 240
57 aaaaacgact gaccaccgccc agactcacct gcgaaatgtt tatttgtttt gggacaatcc 300
58 aatcctacaa ggcatacctt ctgggtttaa acttataactt gtgagcttag gaagagtgg 359
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61 <211> LENGTH: 358
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63 <213> ORGANISM: Zea mays
64 <223> OTHER INFORMATION: unsure at all n locations
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67 agggaaagttt gctgtcgcc atcaatgtt cttaataag ctagctgca agcgaaaccc 120
W--> 68 agaaggctga agatgatton ttgagtagcc agaatcagcg ttggcaatca gcaaccagat 180
69 gctccctcaaa gaccagattt tggtaagttt ccattcttcgaa gaaaggttgc aaagtgaaga 240
70 tatgtatgtt aagtaaaagctt ataccataa cccttctaa acgaaatctcg aggacgagat 300
71 ttcttttaagt gggtaggattt gtagcatccc acaaataaaa ttctgaattt tctcaact 358
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75 <212> TYPE: DNA
76 <213> ORGANISM: Zea mays
77 <223> OTHER INFORMATION: unsure at all n locations
78 <400> SEQUENCE: 6
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81 cgcaaatcaa gagaaaaggtt atgtttctaa gtccttagtac attggttttt tggtaataa 180
82 tacttgttata agtggggaa acagaaagta taagaaaaga gaagagggtgc aaaaagttcg 240
83 gtctggagca cccgactgtc cgggtggca cccgacagtg tccgggtgc caggctgact 300
84 cggcgcgaac tggcccgctc caggaatatg cccgacggcgt acggctaaa ttccacggac 360
85 tattccgtgtt gcaacggact gtccggtgag tcaacggcgt actgagccaa cggctggcag 420
86 cggaaatgtc ggcgcacacg tggctggcc 449
88 <210> SEQ ID NO: 7
89 <211> LENGTH: 344
90 <212> TYPE: DNA
91 <213> ORGANISM: Zea mays
92 <400> SEQUENCE: 7
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94 ttgtttctca agttggcat aattgccttt tagatatgac taccttggaa agacttgctt 120
95 ttatgaacaa aaatatgtaa atttttaat cgggaggtaa gtacaaataa ttagtcaattt 180
96 taaaactgca cgtatgtatctt acaggtaaa acctaataa aatgcttata aacagctac 240
97 ggatgtatcta tagatatgtt cccactaattt agacagtgtt aggtacattt gtaaaaaat 300
98 atatgaattt cttagggattt aatgccttcaaaataatgtt aaaa 344
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101 <211> LENGTH: 186
102 <212> TYPE: DNA
103 <213> ORGANISM: Zea mays
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105 ccagtaggct actataacag tgatatacact ttatcaatta cagatagtga cctcacact 60
 106 ttgaggtatg attcaccttt taagaagaac actataatcta aaaaaggta cccatttaa 120
 107 taatgcacc gaggcgttaa ttaagattac aaaaattga ggagggggga aatacaattt 180
 108 ccacct 186
 110 <210> SEQ ID NO: 9
 111 <211> LENGTH: 404
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 113 <213> ORGANISM: Zea mays
 114 <223> OTHER INFORMATION: unsure at all n locations
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 117 acccaagcct aaatttgcct tgcagggtta tgcattccggg ggctcaagtt ggattatcga 120
 118 cagcggatgc acaaaaccata tgacggggga gaagaagatg ttccacctct acgtcaagaa 180
 119 taaggattcc caagattcaa tcatattcgg ggtatggaaac caaagcaagg taaaagggtt 240
 120 gggcaagatt gcaatataca atgagcactc tatctctaatt gtgttttag ttgagtcct 300
 121 tggatataat ttactatctg tcagtcattt atgtaatatg ggatatttt tgctattttac 360
 122 aaatgttaat gtgtctgtct ttataagaag tggatggttca ctat 404
 124 <210> SEQ ID NO: 10
 125 <211> LENGTH: 343
 126 <212> TYPE: DNA
 127 <213> ORGANISM: Zea mays
 128 <223> OTHER INFORMATION: unsure at all n locations
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 131 gccggccgac gtggaccggag ctaaccagggt agtcttcgtc caatttccttgc caccggcaac 120
 132 ttccctgaca tccctgtgaag ctctctcacc cgttcaatttgc aactatcgcc ccgtgagtag 180
 133 gccggactcc tcgcccggcga cgagcatctc cgcctgcgcga cgtggaccggc ccgactccaa 240
 W--> 134 ccatccccca cggcgaccgg cacatcggtt tgatcttcga gaccccttcc acgtntctcg 300
 135 ccacccctacc ggagcaatctt cggccggcggt aagcccttcc gcc 343
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 140 <213> ORGANISM: Zea mays
 141 <223> OTHER INFORMATION: unsure at all n locations
 142 <400> SEQUENCE: 11
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 145 caaggcttcc agcaccggaa aaacaggatcac ccgcactcac tgagcgggtt gccacagggt 180
 146 tcgagaagggtt gaatcgctgg cgcgcgcgtt attgggtcaaa gatggggccgc ggcgcacat 240
 147 tatttttaatc gtttctcgcc aacggatctt gggaaagggtt tttttggatc ttccggctcc 300
 148 cgaaggcttag aagactttttaa cacggatcaa gctcgatcc aaaaacgatc tatcaccgcg 360
 149 aatgggctac ttgtgggggtt attgcttcgtt ac 392
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 152 <211> LENGTH: 447
 153 <212> TYPE: DNA
 154 <213> ORGANISM: Zea mays
 155 <223> OTHER INFORMATION: unsure at all n locations
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159 cacttcaaga cccctggagc tgctgcatat ggacctcttc ggacctgtcg cctatctgag 180
160 cataggagga agtaagtatg gtttagttat ttttgatgac ttttcccgt tcacttgggt 240
161 gttcttttg caggaaaaat ccgaaaccca aggactctc aaacgcttcc tcaggagagc 300
162 tcaaaattagag tttgagctca aagtaaaaa gataagaagc gacaacgggt ccgagttcaa 360
163 gaaccttcaa gtggaggagt tccttgaaga ggaagggtc aagcacgagt tctccgtccc 420
164 tacacaccac agcaaaatgg tgtggta 447
166 <210> SEQ ID NO: 13
167 <211> LENGTH: 341
168 <212> TYPE: DNA
169 <213> ORGANISM: Zea mays
170 <400> SEQUENCE: 13
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172 ttagttccca agaaatttcag aattaaatgg ccagagtgtg ctctaccgtc agagttgagc 120
173 gtgagggagg cgaaacccgaa tgagccgaga ctgttccat ctccgaagcg atgcaacgat 180
174 ccggactggc gacctctgaa ggaatccgtc ctgcccagac agagcagact gttgccgaga 240
175 cagaataagt tgcgtccgaa gggaaagaag gaaatattga ggaagctgtat tccgtatgt 300
176 attaccatat tgccgtgcca agcaagccca gccacttggc c 341
178 <210> SEQ ID NO: 14
179 <211> LENGTH: 418
180 <212> TYPE: DNA
181 <213> ORGANISM: Zea mays
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185 atattttact gaaaatcgtt atggccatgt tcattatcat tctacttattt ataaagaattt 180
186 atatgtctc atacgatctt tgcaaacatgt gaaacattttt ttgcgttca acgaatctgt 240
187 tattcattttt gatcatgagt cacttaagca tcttcgtatgtt caaacaaatc tgaaccgttag 300
188 acatgccaag tgggttagaat ttcttggaaac ttctcttac atcattaaat ataaaaaggg 360
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192 <211> LENGTH: 380
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198 ttatagcaac caaaattgtc gtcaatcca tcctttctgt ctttcgtctg ataatgcagc 180
199 tcgtgaaccc ggcaaaagct gtcccaat ggtccactg cttggcttcg gagtgcccg 240
200 atataaacac taagcctaac gatagcgttta ggggtcagct ggtaaaata gataccgaa 300
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202 atttgaaat aacaatttca 380
204 <210> SEQ ID NO: 16
205 <211> LENGTH: 427
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207 <213> ORGANISM: Zea mays
208 <400> SEQUENCE: 16
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210 agagggtcaaa actcaacggg caatggatga attcagaatc attgcagagc atattggat 120

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214 gtgtaatgaa attcttggaa attattcgaa aaaagaagat caactgtga cagcagcctt 360
215 ctgcaccctgt cccaaagcgaa ggctgaaccg agtgcttgat gcactgggtt tcgaatatcc 420
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225 tcttagggcac tccatgttagt ttcaagattt ctgtatcaa taaataggcg atgtgtgaag 120
226 catcctcatt ctgttgcat ctaatactct gaaccatttt cggaatctc tcatccacaa 180
227 caaaaatgct atgtctctt ttttgagacc t 211
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230 <211> LENGTH: 390
231 <212> TYPE: DNA
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237 ccgcgtctcc tcagttcatc tgcccaagtc ggcgcggccag ctcatattcc tcctctctgc 180
238 acgcacgaag ttttccctgc gtccgcctcc tgccgcggaa gatcttcggt ggcgcgcgc 240
W--> 239 acgaatncat gctcgcgcgcg cgcccccagct cacccctcta gctcgggttt ttttctctg 300
240 cagcgtcgta catggcaagt cgtcgctgtt ccccatcgcg ccatcgattc cgcttgagcc 360
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257 <211> LENGTH: 400
258 <212> TYPE: DNA
259 <213> ORGANISM: Zea mays
260 <223> OTHER INFORMATION: unsure at all n locations
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262 cacaactatt gcgcatttgc ctatgtcatt ggtctttat gctaccctac atggcatgtt 60
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Output Set: N:\CRF3\04032001\I606977.raw

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L:17 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:39 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
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L:39 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:45 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:45 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:45 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:45 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:68 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:68 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
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L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:80 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6
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L:116 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9
L:116 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
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L:134 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10
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L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
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L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
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L:338 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:25
L:338 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:575 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/606,977

DATE: 04/03/2001
TIME: 13:22:59

Input Set : N:\paola\i606977.raw
Output Set: N:\CRF3\04032001\I606977.raw

L:780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61

STATISTICS SUMMARY
PATENT APPLICATION: US/09/606,977

DATE: 04/03/2001
TIME: 13:23:01

Input Set : N:\paola\i606977.raw
Output Set: N:\CRF3\04032001\I606977.raw

Application Serial Number: US/09/606,977

Alpha or Numeric: Numeric

Application Class:

Application File Date: 06-28-2000

Art Unit:

Software Application:

Total Number of Sequences: 82359

Total Nucleotides: 31151446

Total Amino Acids: 0

Number of Errors: 0

Number of Warnings: 328604

Number of Corrections: 0

MESSAGE SUMMARY

258 W:246453 (Mandatory Feature missing)

341 W: 82151 ((46) "n" or "Xaa" used)